

WHAT IS CLAIMED IS:

1. An information recording apparatus for recording object information and reproduction control information for  
5 controlling a reproduction mode of the information after recording in a recordable recording medium in conformity to a recording format for a recording medium for reproduction only, the apparatus comprising:

10 a securing device for securing the reservation of a reservation control information area as an area on said recordable recording medium corresponding to a defined area so as to record said reproduction control information in said recording format on the recordable recording medium before recording said information in said recordable recording medium;

15 a first recording device for recording said object information in a recording area as an area on said recordable recording medium following the secured reservation control information area and corresponding to a defined area so as to record said object information in said recording format; and

20 a second recording device for recording said reproduction control information in the secured reservation control information area, after said first recording device records said object information in said recording area.

2. The information recording apparatus according to claim 1, wherein said first recording device and said second recording device record managing information for indicating positions of

said reservation control information area and said recording area on said recordable recording medium in said recordable recording medium.

5 3. The information recording apparatus according to claim 1, wherein said object information comprises a plurality of unit information and said reproduction control information comprises unit control information to be recorded for every said unit information.

10 4. The information recording apparatus according to claim 3, further comprising:

a second securing device for securing the reservation of an entire control information area as an area on said recordable recording medium corresponding to a defined area so as to record said entire control information for controlling a reproduction mode of the entirety of the information recorded in said recording medium for reproduction only in said recording format on the recordable recording medium before recording said information in said recordable recording medium; and

20 a third recording device for recording said entire control information in said entire control information area after said all information and said all unit control information are completely recorded in said recordable recording medium.

25 5. The information recording apparatus according to any one of claim 1,

wherein said first recording device records backup reproduction control information as the backup information same as said reproduction control information on said recordable recording medium in succession to recording said objection  
5 information in said recording area.

6. The information recording apparatus according to claim 3,

wherein said recording format is a recording format based  
10 on a DVD video standard, said recordable recording medium is a DVD-R (DVD-Recordable) and further, said unit control information comprises VTSI (Video Title Set Information) in said recording format and said entire control information comprises VMGI (Video Manager General Information) in said recording  
15 format.

7. An information recording method for recording object information and reproduction control information for  
controlling a reproduction mode of the information after  
20 recording in a recordable recording medium in conformity to a recording format for a recording medium for reproduction only, the method comprising:

a securing process for securing the reservation of a reservation control information area as an area on said  
25 recordable recording medium corresponding to a defined area so as to record said reproduction control information in said recording format is secured on the recordable recording medium

before recording said object information in said recordable recording medium;

5 a first recording process for recording said object information in a recording area as an area on said recordable recording medium following the secured reservation control information area and corresponding to a defined area so as to record said information in said recording format; and

10 a second recording process for recording said reproduction control information in the secured reservation control information area, after said object information is recorded in said recording area in said first recording process.

8. The information recording method according to claim 7, wherein, in said first recording process and said second  
15 recording process, managing information for indicating positions of said reservation control information area and said recording area on said recordable recording medium is recorded in said recordable recording medium.

20 9. The information recording method according to claim 7, wherein said information comprises a plurality of unit information and said reproduction control information comprises unit control information to be recorded for every said unit information.

25 10. The information recording method according to claim 9, further comprising:

a second securing process for securing the reservation of an entire control information area as an area on said recordable recording medium corresponding to a defined area so as to record said entire control information for controlling a reproduction mode of the entirety of the information recorded in said recording medium for reproduction only in said recording format on the recordable recording medium before recording the object information in said recordable recording medium; and

a third recording process for recording said entire control information in said entire control information area after said all information and said all unit control information are completely recorded in said recordable recording medium.

11. The information recording method according to claim 7, wherein, in said first recording process, backup reproduction control information as the backup information same as said reproduction control information is recorded on said recordable recording medium in succession to recording said object information in said recording area.

12. An information recording medium, in which a recording control program is recorded capable of being read by a recording computer, for functioning said recording computer included in an information recording apparatus for recording object information and reproduction control information for controlling a reproduction mode of the information after recording in a recordable recording medium in conformity to a

recording format for a recording medium for reproduction only,  
the program causing the recording computer to function as:

a securing device for securing the reservation of a  
reservation control information area as an area on said  
5 recordable recording medium corresponding to a defined area so  
as to record said reproduction control information in said  
recording format is secured on the recordable recording medium  
before recording said information in said recordable recording  
medium;

10 a first recording device for recording said information  
in a recording area as an area on said recordable recording medium  
following the secured reservation control information area and  
corresponding to a defined area so as to record said information  
in said recording format; and

15 a second recording device for recording said reproduction  
control information in the secured reservation control  
information area after said object information is recorded in  
said recording area by said first recording device.

20 13. The information recording medium according to claim 12,  
wherein said first recording device and said second recording  
device record the managing information for indicating positions  
of said reservation control information area and said recording  
area on said recordable recording medium in said recordable  
25 recording medium.

14. The information recording medium according to claim 12,

wherein said object information comprises a plurality of unit information and said reproduction control information comprises unit control information to be recorded for every said unit information.

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15. The information recording medium according to claim 14, wherein said recording control program causes said recording computer to further function as:

10 a second securing device for securing the reservation of an entire control information area as an area on said recordable recording medium corresponding to a defined area so as to record said entire control information for controlling a reproduction mode of the entirety of the information recorded in said recording medium for reproduction only in said recording format in said recording format before recording said object information in said recordable recording medium; and

15 a third recording device for recording said entire control information in said entire control information area after said all information and said all unit control information are completely recorded in said recordable recording medium.

20 16. The information recording medium according to claim 12, wherein said recording control program causes said recording computer to further function as said first recording device to record backup reproduction control information as the backup information same as said reproduction control information on said recordable recording medium in succession to recording said

object information in said recording area.

17. A computer data signal embodied in a carrier wave and representing a series of instructions which cause a computer to perform steps to execute a recording control program in an information recording apparatus for recording object information and reproduction control information for controlling a reproduction mode of the information after recording in a recordable recording medium in conformity to a recording format for a recording medium for reproduction only, the steps comprising:

a securing step for securing the reservation of a reservation control information area as an area on said recordable recording medium corresponding to a defined area so as to record said reproduction control information in said recording format is secured on the recordable recording medium before recording said information in said recordable recording medium;

a first recording step for recording said information in a recording area as an area on said recordable recording medium following the secured reservation control information area and corresponding to a defined area so as to record said information in said recording format; and

a second recording step for recording said reproduction control information in the secured reservation control information area after said object information is recorded in said recording area by said first recording device.



18. The computer data signal embodied in a carrier wave according to claim 17, wherein said first recording step and said second recording step record the managing information for indicating positions of said reservation control information area and said recording area on said recordable recording medium in said recordable recording medium.

19. The computer data signal embodied in a carrier wave according to claim 17, wherein said object information comprises a plurality of unit information and said reproduction control information comprises unit control information to be recorded for every said unit information.

20. The computer data signal embodied in a carrier wave according to claim 19, wherein said recording control program causes said recording computer to further function as:

a second securing step for securing the reservation of an entire control information area as an area on said recordable recording medium corresponding to a defined area so as to record said entire control information for controlling a reproduction mode of the entirety of the information recorded in said recording medium for reproduction only in said recording format in said recording format before recording said object information in said recordable recording medium; and

a third recording step for recording said entire control information in said entire control information area after said

all information and said all unit control information are completely recorded in said recordable recording medium.

21. The computer data signal embodied in a carrier wave  
5 according to claim 17, wherein said recording control program causes said recording computer to further function as said first recording step to record backup reproduction control information as the backup information same as said reproduction control information on said recordable recording medium in succession  
10 to recording said object information in said recording area.